

Quarterly Groundwater Sampling Results
August 3-5, 1999
 Precision National Plating Services - Clarks Summit, PA

Analyte (ug/l)	PA Statewide Health Standard	AGM-1S 08/04/99	AGM-1I 08/04/99	AGM-2S 08/04/99	AGM-2I 08/04/99	AGM-3S 08/04/99	AGM-3I 08/04/99	AGM-4S 08/05/99	AGM-4SD 08/05/99	AGM-4I 08/05/99
Aluminum	200	25,600	19.2 U	347	49.7 J	434	64.6 J	37.4 U	35.4 U	30.6 U
Antimony	6	6.0 U	6.0 U	6.0 U	6.0 U	29.0 J	6.0 U	36.8 U	36.8 U	55.2 U
Arsenic	50	20.7	3.1 U	4.9 J	3.1 U	3.1 U	3.4 J	3.1 U	3.8 J	3.1 U
Barium	2,000	341 J	2,210 J	82.8 J	882 J	116 J	646 J	77.6 J	76.2 J	243
Beryllium	4	1.4 J	0.1 U	0.5 U	0.5 U	0.9 U				
Cadmium	5	0.3 U	0.8 U							
Calcium	--	65,700	27,800	29,900	29,700	46,800	59,600	46,600	46,300	72,100
Chromium	100 (1)	179.0	4.8 J	38.1	8.4 J	3350	8.2 J	1,110	1,100	5.2 J
Cobalt	--	27.5 J	1.3 U	1.6 J	1.3 U	2.2 J	1.3 U	7.1 UJ	7.1 UJ	7.1 UJ
Copper	1,000	36.2	1.8 J	1.3 J	1.1 U	2.3 J	2.3 J	6.6 J	6.0 J	7.4 J
Hexavalent Chromium	180	10.0 U	10.0 U	20.0	10.0 U	3,000	10.0 U	1,100	1,000	10.0 U
Iron	300	40,100	12,700	377	1,420	598	1,680	133 U	98.4 U	3,890
Lead	5	14.9	2.7 U	2.7 U	2.9	2.7 U	3.0	2.7 U	2.7 U	3.2
Magnesium	--	12,900	3,700 J	3,720 J	4,130 J	6,580	8,380	5,450	5,400	10,900
Manganese	50	2,370	261	38.0	114	42.4	372	7.9 J	7.5 J	620.0
Mercury	2	0.2 U	0.2 U	0.2 U	0.2 U	0.3	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	178	2.4 J	8.1 J	7.4 J	5.1 J	4.6 J	12.8 U	12.8 U	16.3 J
Potassium	--	6,560	5,350	1,450 J	3,930 J	1,740 J	3,300 J	1,800 J	1,720 J	1,870 J
Selenium	50	2.4 UJ	2.4 U	2.4 U						
Silver	100	3.7 UJ	3.7 UJ							
Sodium	--	11,400	19,200	6,790	24,600	13,300	14,400	6,260 J	6,220 J	13,600 J
Thallium	2	6.6 U	3.9 U	3.9 U	4.4 U	5.4 U	3.9 U	3.9 U	3.9 U	3.9 U
Vanadium	2.1	27.8	1.1 U	6.8 U	8.9 U	7.1 U				
Zinc	2,000	175	145	53.8	57.4	94.4	51.6	60.0	45.3	91.2

Notes:

(1) 100 ug/L is the State-wide Health Standard for Chromium (III) and the Federal MCL for total Chromium in groundwater.

U = The analyte was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte sample.

UJ = The analyte was not detected above the reported sample quantitaion or detection limit. However, the reported quantitation or detection limit is approximate and may or may not represent the actual limit of quantitation or detection necessary to accurately and precisely measure the analyte in the sample.

R = The sample results are rejected because of serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence or absence of the analyte cannot be verified.

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Analyte (ug/l)	PA Statewide Health Standard	AGM-5S 08/03/99	AGM-5I 08/03/99	AGM-6S 08/03/99	AGM-6I 08/03/99	AGM-6D 08/03/99	AGM-7S 08/03/99	AGM-7I 08/03/99	MW-1 08/04/99	MW-2 05/04/99
Aluminum	200	22.3 J	514	554	185 J	36.8 J	19.2 U	2,880	85.4 J	52.8 J
Antimony	6	6.0 U	6.0 U	6.0 U						
Arsenic	50	4.0 J	3.1 U	3.1 U	3.1 U	7.3 J	3.1 U	5.0 J	9.3 J	3.1 U
Barium	2,000	135 J	416 J	54.1 J	149 J	711 J	42.6 J	53.1 J	398 J	92.7 J
Beryllium	4	0.1 UJ	0.6 J	0.1 J	0.1 U	0.1 U				
Cadmium	5	0.3 UJ	0.6 J	0.3 UJ	0.3 U	0.3 U				
Calcium	--	24,500 J	44,400 J	34,000 J	42,000 J	31,200 J	53,800 J	56,500 J	209,000	47,200
Chromium	100 (1)	234	7.3 J	12.9	19.4	4.4 U	9.2 J	86.6	4.4 U	56.6
Cobalt	--	1.4 J	1.3 U	1.3 U	1.9 J	1.3 U	1.3 U	4.3 J	2.5 J	1.3 U
Copper	1,000	3.0 J	5.4 J	2.6 J	4.3 J	1.2 J	5.3 J	10.3 J	4.5 J	3.4 J
Hexavalent Chromium	180	10.0 U	10.0 U	10.0 U						
Iron	300	5,970 J	1,920 J	875 J	504 J	289 J	295 J	6610 E	85,100	15,000
Lead	5	2.7 U	2.7 U	2.7 U	3.0	2.9 J	4.4	22.1	9.3	3.1
Magnesium	--	2,380 J	6,570 J	4,020 J	5,400 J	4,270 J	6,410 J	7,330 J	8,120	5,950
Manganese	50	2,620 J	414 J	354 J	300 J	216 J	487 J	412 J	1,480	336
Mercury	2	0.7	0.2 U	0.2 U	0.2 U					
Nickel	100	5.4 J	6.0 J	9.8 J	14.2 J	2.4 J	9.8 J	50.0	1.4 U	8.8 J
Potassium	--	1,150 J	2,960 J	2,780 J	4,020 J	3,440 J	6,860	1,600 J	10,700	7,460
Selenium	50	2.4 UJ	2.4 U	2.4 UJ	2.4 U	2.4 U	2.4 UJ	2.4 UJ	2.4 UJ	2.4 UJ
Silver	100	3.9 J	2.9 UJ	3.7 UJ	3.7 UJ					
Sodium	--	21,200	14,700	32,200	15,400	23,900	13,500	14,800	72,200	102,000
Thallium	2	3.9 U	3.9 U	4.1 U						
Vanadium	2.1	1.1 U	1.2 J	1.1 U	1.1 U	1.1 U	1.1 U	3.8 J	1.1 U	1.1 U
Zinc	2,000	85.5 J	75.7 J	154 J	92.5 J	72.4 J	165 J	605 J	171	118

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Analyte (ug/l)	PA Statewide Health Standard	MW-3 08/05/99	MW-4 08/05/99	MW-A 08/05/99	MW-B 08/05/99	MW-C 08/04/99
Aluminum	200	91.1 U	51.2 U	58.8 U	440	54.6 J
Antimony	6	61.4 U	36.8 U	36.8 U	47.6 U	6.0 U
Arsenic	50	3.1 U	15.3	3.1 U	3.1 U	3.2 J
Barium	2,000	30.1 J	284	61.1 J	191 J	23.0 J
Beryllium	4	0.5 U	0.5 U	0.5 U	0.5 U	0.6 J
Cadmium	5	0.3 U	0.6 U	0.3 U	0.3 U	0.3 U
Calcium	--	37,100	76,000	51,200	70,700	37,500
Chromium	100 (1)	1,930	757	3,350	618	16.8
Cobalt	--	8.4 J	7.1 UJ	7.1 UJ	7.1 UJ	1.4 J
Copper	1,000	4.1 UJ	4.1 U	4.1 UJ	7.4 J	4.0 J
Hexavalent Chromium	180	2,000	800	4,100	680	10.0 U
Iron	300	852	206 U	297	567	170
Lead	5	2.7 U	8.9	4.3	2.7 U	2.7 U
Magnesium	--	3,750 J	11,200	5,900	10,800	4320 J
Manganese	50	20.2	112	90.2	22.9	39.4
Mercury	2	0.2 U	1.1	0.2 U	0.2 U	0.2 U
Nickel	100	19.4 J	12.8 U	12.8 U	14.8 J	13.8 J
Potassium	--	886 J	1,830 J	1,100 J	1,230 J	692 J
Selenium	50	2.4 U				
Silver	100	3.7 UJ				
Sodium	--	4,510 J	16,400 J	15,300 J	20,000 J	3,860 J
Thallium	2	3.9 U	13.7 U	3.9 U	3.9 U	4.5 U
Vanadium	2.1	6.6 U	4.5 U	5.4 U	4.5 U	1.1 U
Zinc	2,000	36.0 U	66.1	78.6	78.1	74.5

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